



The
Original.

MDC DOCTORBLADE
081010816

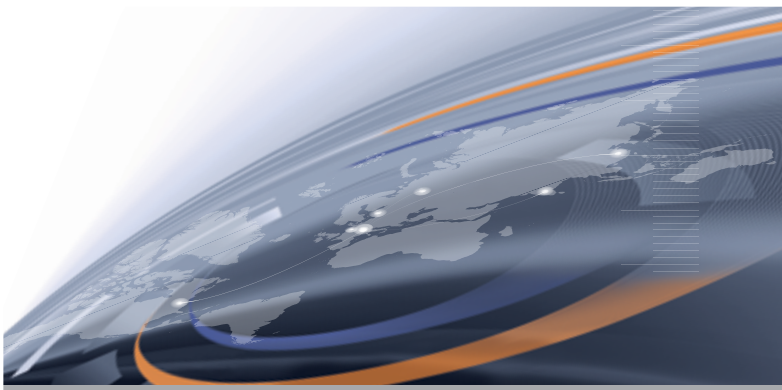


MDC DOCTOR BLADES SINCE 1972.



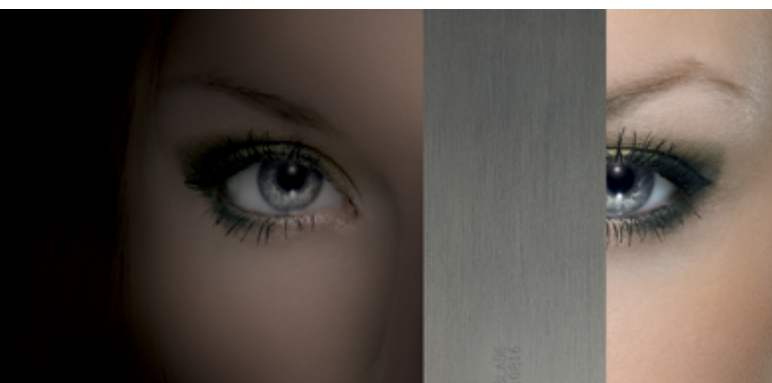
Daetwyler
SwissTec

CONTENTS.



DAETWYLER SWISSTEC	
DAETWYLER SWISSTEC	4
SWISSTEC PRODUCTION AND SALES	6
DAETWYLER SWISSTEC WORLDWIDE	10
DAETWYLER SWISSTEC - TEAM	12
MDC DOCTOR BLADES	
MDC DOCTOR BLADES FOR GRAVURE PRINTING	14
TROUBLESHOOTER GRAVURE PRINTING	18
MDC DOCTOR BLADES FOR FLEXO PRINTING	20
TROUBLESHOOTER FLEXO PRINTING	24
MDC DOCTOR BLADES FOR OFFSET	26
MDC BLADES FOR SPECIAL APPLICATIONS	28
MDC PLASTIC BLADES	30
CONSUMABLES	
PACKAGING	32
MDC ENDSEALS	34
MDC ANILOX CLEANER	36
CONSUMABLES	38

DAETWYLER SWISSTEC.



MARKET LEADER

Daetwyler SwissTec - the innovative supplier of high-quality doctor blade types for every printing application – since 1972. The company's headquarters in Bleienbach (Switzerland) is the competence center for existing and new doctor blade technologies. As a global market leader in the printing industry, SwissTec stands for quality, customer focus and innovation.

PRODUCTS

Daetwyler SwissTec develops and produces high-quality MDC doctor blades for all printing applications. The wide product range of uncoated and coated doctor blades and consumables offers benefits to clients worldwide. The doctor blades meet the highest quality standards. Their development and production - particularly their coating - are SwissTec's core competences.

ALWAYS ONE STEP AHEAD

Thanks to continuous research and development work, SwissTec is successfully maintaining its leading market position and is constantly expanding. Our research center is working continuously to meet the market's growing demands.

With dedication and persistence in the research and development of new products, SwissTec aspires to offer users maximum added value also in future.

AT YOUR SIDE

With proven specialists from the printing industry, SwissTec supports users locally at their printing presses. This gives printers professional support, enabling them to achieve perfect print results even with challenging jobs - for example, by choosing the appropriate doctor blades.

With extensive know-how and commitment, SwissTec efficiently masters every challenge - also in your printing environment.

GLOBALLY POSITIONED

With production locations in **Switzerland**, the **USA**, **China** and **India** and a **global sales network with more than 55 partners**, SwissTec guarantees that competence and know-how are in line with customers' requirements to the best possible degree and are available worldwide.

SwissTec ensures that it meets the increasing demands of international markets and that its customers benefit from not only a technical lead, but also from an economic advantage over their market competitors.

HIGH-QUALITY DOCTOR BLADES FROM THE MARKET LEADER. Since 1972 we develop and produce highest quality Doctor Blades for all printing applications. The coating of Doctor Blades is our passion and key competence.

SWISSTEC PRODUCTION AND SALES.



HQ BLEIENBACH | SWITZERLAND

PRODUCTION | SALES | QM | HQ

Daetwyler SwissTec produces blades for all applications in the printing industry. We exclusively use the highest quality raw materials for the production of our Doctor Blades. All raw materials are examined by our specialists in our well-equipped metallurgical laboratory, ensuring that all our Doctor Blades meet the highest quality standards.



HUNTERSVILLE | USA

PRODUCTION | SALES

Daetwyler USA was founded in 1975 to support and expand the customer base in the North American market. Today, the company is a leading US manufacturer and supplier of Doctor Blades and other pressroom products for the printing industry. In addition to providing products and services to the printing industry, Daetwyler also offers its customers a partnership which is a single source for all their needs.



SHANGHAI | CHINA

PRODUCTION | SALES

We sell the complete line of Doctor Blades from Daetwyler SwissTec in China. We are licensed to produce standard Doctor Blades on identical production equipment and with the same raw materials. Strict quality controls and continuous collaboration allow us to produce the quality products our customers are accustomed to receiving. We offer comprehensive customer service together with our partners who have been distributing Daetwyler Doctor Blades for over 10 years in China.



PUNE | INDIA

PRODUCTION | SALES

In Pune we manufacture Doctor Blades for our customers on the Indian sub-continent and in Central Africa according to the highest Swiss standards. The steel quality is examined at the headquarters in Switzerland before being processed in India. Through regular sampling of the finished goods, we ensure the high Swiss quality.

SWISSTEC PRODUCTION AND SALES.



MOSCOW | RUSSIA

SALES

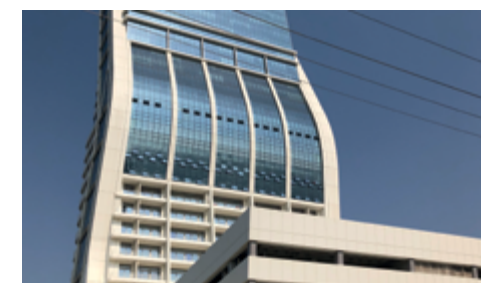
The company OOO Daetwyler, located in Moscow, was established to supply the eastern markets with the complete range of Daetwyler SwissTec. Close customer contact guarantees flexible and short deliveries. Our technical sales team on site offers yet another added value to our customers.



SINGAPORE

SALES

Daetwyler SwissTec Singapore Pte Ltd is the latest SwissTec subsidiary. Our branch office in the economically strong Singapore delivers from their own stock to all Southeast Asian countries - fast and flexible. To have our own branch office on site is a vital added value to our customers.



IZMIR | TURKEY

SALES

In August 2018, our new office has opened in Izmir, Turkey. Daetwyler SwissTec Emtia Ticaret A.Ş is offering MDC Doctor Blades and Rotoflex Colors for the Turkish printing market. Thanks to our partnerships, we are also able to sell Anilox rolls from Zecher and colors from Schmid Rhyner.



LÜBECK | GERMANY

RESEARCH AND DEVELOPMENT

As market leader want to continuously further develop ourselves so we can also in the future answer to our customers' needs. In Lübeck we have opened our research and development center to move innovations forward. Furthermore Daetwyler IboTec is specialized on doctor blades for the paper industry.

DAETWYLER SWISSTEC WORLDWIDE.



ON-THE-SPOT EXPERTISE

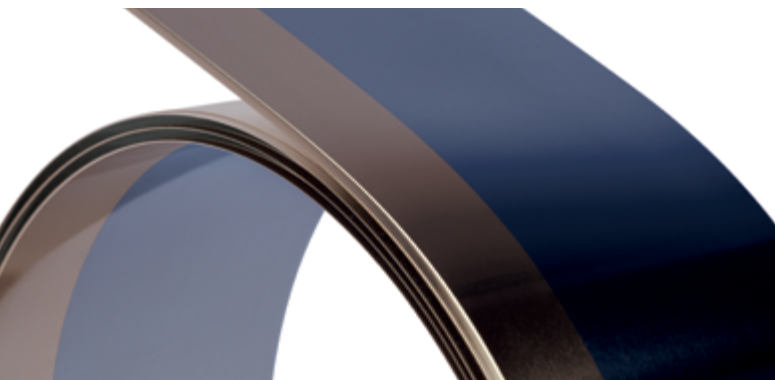
- | | | |
|----------------|-------------|--------------|
| Argentina | Indonesia | Russia |
| Australia | Iran | Saudi Arabia |
| Austria | Israel | Sweden |
| Bangladesh | Italy | Switzerland |
| Belarus | Japan | Serbia |
| Bolivia | Kazakhstan | Singapore |
| Brazil | Kenya | South Africa |
| Czech Republic | Korea | Spain |
| Chile | Latvia | Sri Lanka |
| China | Lithuania | Syria |
| Colombia | Malaysia | Taiwan |
| Croatia | Mexico | Thailand |
| Denmark | New Zealand | Turkey |
| Germany | Netherlands | UAE |
| Ecuador | Nigeria | Uruguay |
| Egypt | Pakistan | USA |
| Finland | Paraguay | Ukraine |
| France | Peru | Venezuela |
| Greece | Philippines | Vietnam |
| Great Britain | Poland | |
| India | Romania | |

Daetwyler Facilities
Distribution Partner
Addresses: www.daetwyler.com

DAETWYLER SWISSTEC TEAM.

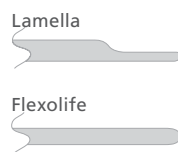


MDC DOCTOR BLADES FOR GRAVURE PRINTING.



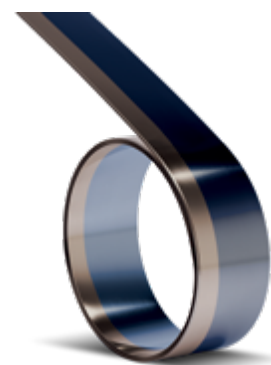
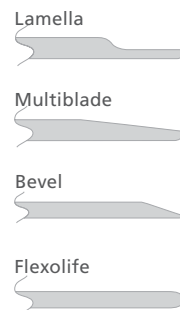
MDC DURALIFE

- The main application is the decorative area
- Little harder coating than LONGLIFE
- Suitable for abrasive and metallic inks
- Superb print quality with large and hard ink pigments



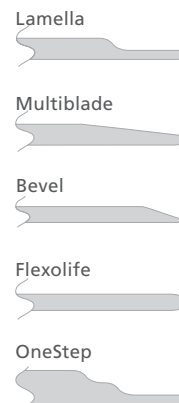
MDC OPTILIFE

- Further development of the bestseller LONGLIFE
- The main application is in the solvent-based ink sector
- No streaking and no hazing in the starting phase
- Easy on chrome for higher cylinder running times
- Very fast running-in period and long service life
- Can also be used for lamination applications



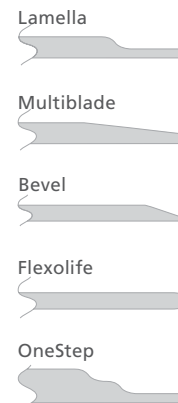
MDC LONGLIFE

- Our bestseller for decades
- An all-rounder for every printing application
- Very long service life in continuous printing
- Reduces drag outs, streaks and hazing in gravure printing

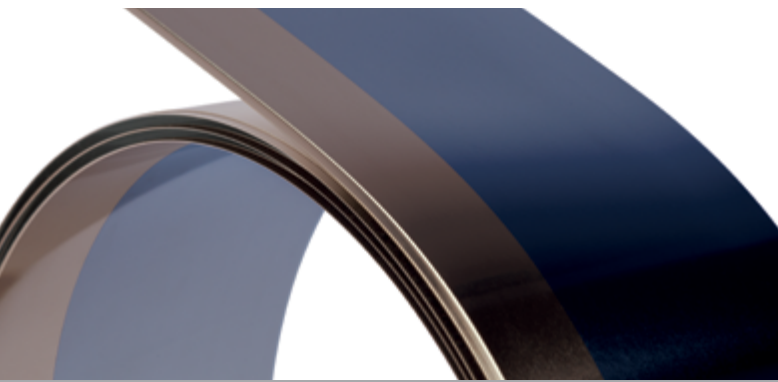


MDC ULTRALIFE

- An excellent doctor blade from the LONGLIFE family
- Thanks to the slightly softer coating for fine texts
- Gentle on the cylinder surface at high running performance
- The tobacco industry is the main area of application
- For printing barcodes and structured texts

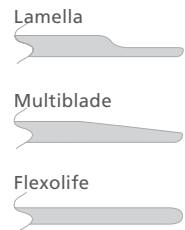


MDC DOCTOR BLADES FOR GRAVURE PRINTING.



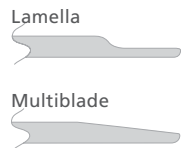
MDC GAMUTSTAR

- Extended blade life due to durable base coating
- Extremely high service life for long runs and multiple jobs
- Ideal for Expanded Gamut Printing
- Cleanest possible wipe over the entire blade life means no changes in tonal values
- Very gentle on anilox thanks to additional soft coating



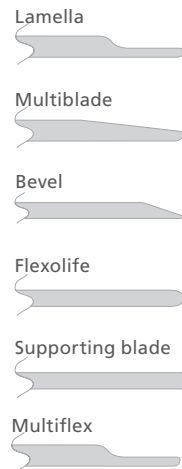
MDC IBOSTAR

- Alternative product to LONGLIFE for medium runs
- Short run-in period thanks to Soft coating
- Superb for sharp transitions
- Reduces hazing and streaks
- Corrosion protection



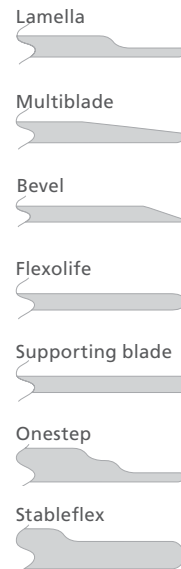
MDC STAINLESS

- Corrosion resistant
- Especially suitable for water based inks, lacquers and other substrates with high pH values
- Increased service life compared to standard blades

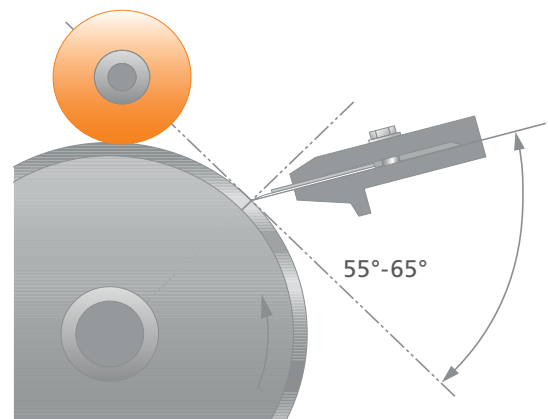
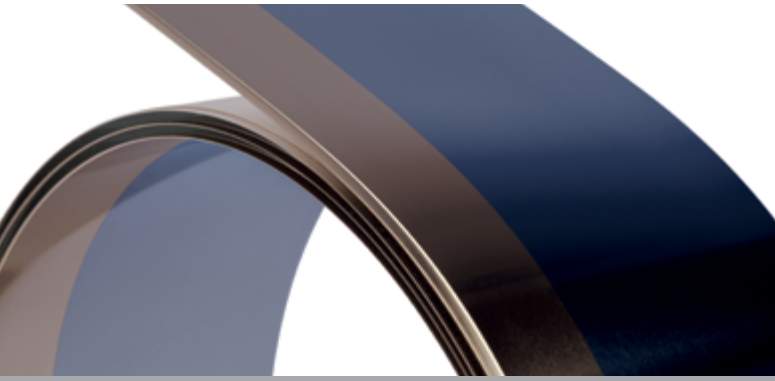


MDC STANDARD

- High-quality European steel
- The specially polished blade guarantees smooth and sharp doctoring
- Available in all configurations



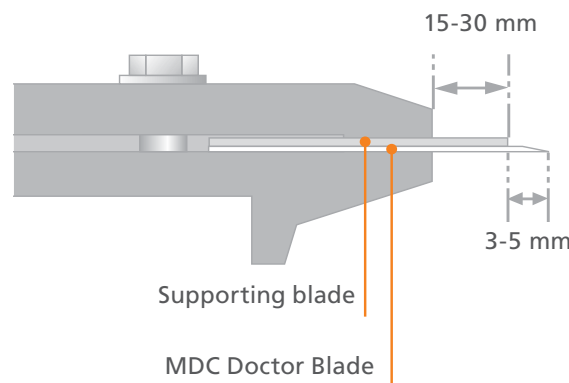
TROUBLESHOOTER GRAVURE PRINTING.



FINE ADJUSTMENTS ARE REQUIRED FOR OPTIMAL PRINTING RESULTS

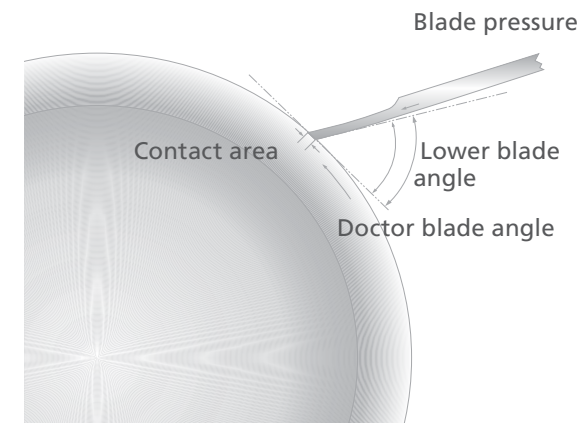
The gravure industry recommends a doctor blade contact angle of approximately 55 to 65 degrees. Flat angles create a big contact area, thereby increasing hazing and drag-outs. Angles that are too steep produce chattering.

A precise adjustment of doctor blade angle is crucial for an optimal contact zone.



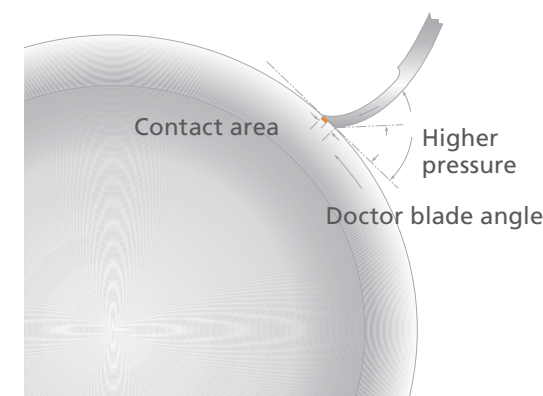
THE CORRECT INSTALLATION OF THE DOCTOR BLADE INTO THE DOCTOR BLADE HOLDER

For best results, the blade holder and back-up blade (if used), must be cleaned carefully and be in good condition. The MDC Doctor Blade must be mounted absolutely straight, without waves. To prevent waves, tighten bolts in the blade holder beginning in the center and working your way out, alternating sides.



DOCTOR BLADE PRESSURE: LESS IS MORE

We strongly recommend using minimal doctor blade pressure. The thinner the tip, the less pressure is required to achieve a clean and brilliant printing result. A certain amount of flexibility is needed to compensate for things such as deviation of the cylinder surface or changes in diameter.



EXCESSIVE DOCTOR BLADE PRESSURE

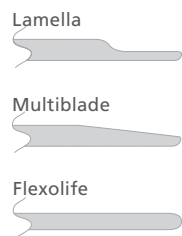
Too much pressure will result in excessive deflection of the doctor blade. Increased deflection creates a lower contact angle and wider contact area, which leads to hazing and tonal value changes in the printed product.

MDC DOCTOR BLADES FOR FLEXO PRINTING.



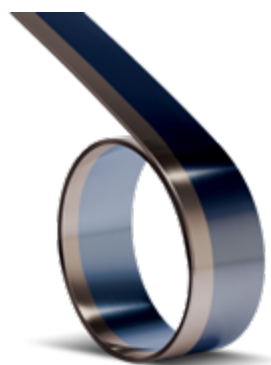
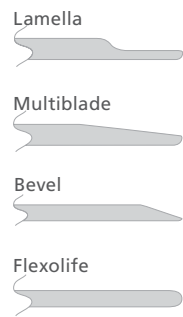
MDC GOLDSTAR

- High service life due to the very hard base coating
- Extremely long service life with solvent-based inks
- Very gentle on anilox roller thanks to additional Soft coating
- Suitable for very abrasive inks and lacquers
- Consistently high print quality and short running-in period
- Corrosion protection



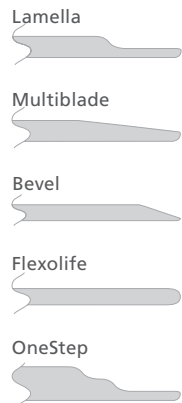
MDC OPTILIFE PLUS

- The product for the corrugated cardboard industry
- For very long runs in combination with water based inks
- Very short running-in period thanks to Soft coating
- 100 % corrosion resistant throughout its entire life



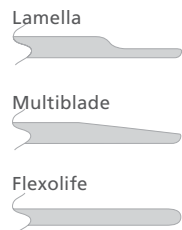
MDC LONGLIFE

- Our bestseller for decades
- An all-rounder for every printing application
- Very long service life in continuous printing
- Protects anilox roller in Flexo printing

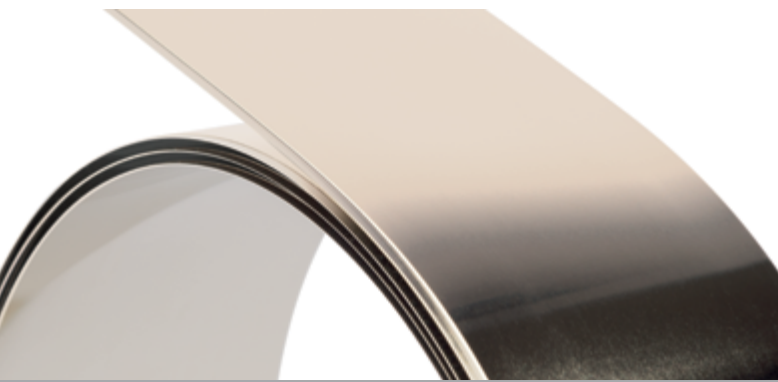


MDC GAMUTSTAR

- Extended blade life due to durable base coating
- Extremely high service life for long runs and multiple jobs
- Ideal for Expanded Gamut Printing
- Cleanest possible wipe over the entire blade life means no changes in tonal values
- Very gentle on anilox thanks to additional soft coating

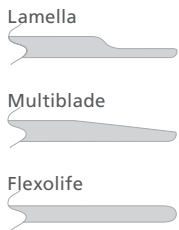


MDC DOCTOR BLADES FOR FLEXO PRINTING.



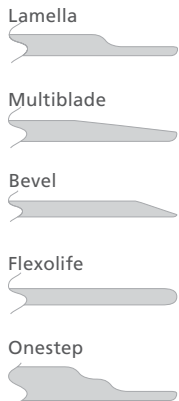
MDC PEARLSTAR

- New coating technology allows to significantly reduce ink adherence to the doctor blade
- Due to reduced ink adherence, significantly less drag outs and streaks in the print
- Reduces back doctoring in Flexo printing
- Outstanding performance with cold seal lacquers and in combination with adherent fluids
- MDC PEARLSTAR reduces defects in the entire print run and increases your performance



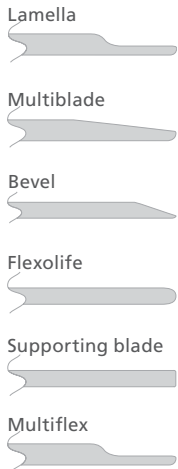
MDC SOFT

- Our proven flexo printing product world-wide
- Solvents and water based inks are the product's area of application
- Surfaces are protected thanks to the Soft coating
- Reduces score lines on the ceramic roller
- Corrosion protection



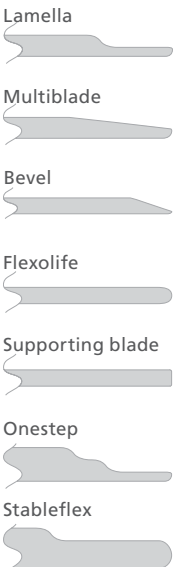
MDC STAINLESS

- Corrosion resistant
- Especially suitable for water based inks, lacquers and other substrates with high pH values
- Increased service life compared to standard blades

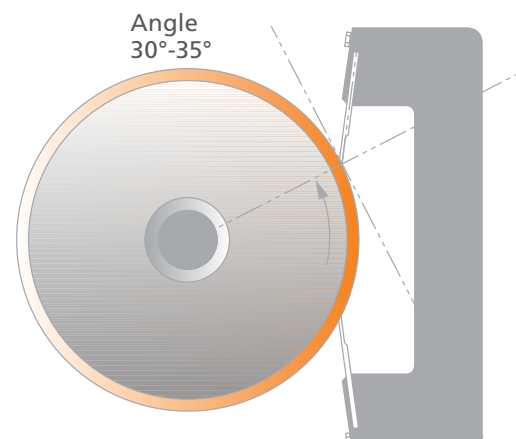
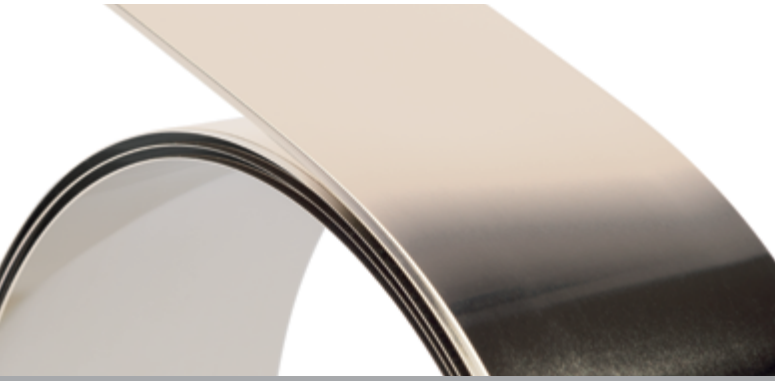


MDC STANDARD

- High-quality European steel
- The specially polished blade guarantees smooth and sharp doctoring
- Available in all configurations

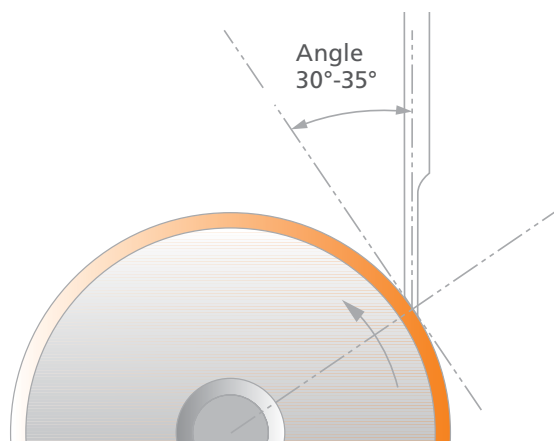


TROUBLESHOOTER FLEXO PRINTING.



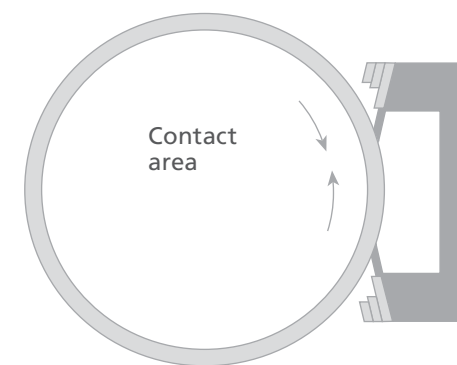
CHAMBER DOCTOR BLADE SYSTEMS

There are two distinctly different blade systems; single Reverse-Angle Blade system and the more commonly used closed Doctor Blade System (chamber system). Angles on an enclosed system are pre-set and for a single reverse-angle blade system the industry standard is approximately 30 to 35 degrees. Flat angles create greater contact area, requiring more doctor blade pressure to get a clean wipe. This increase in pressure creates excessive anilox and blade wear.



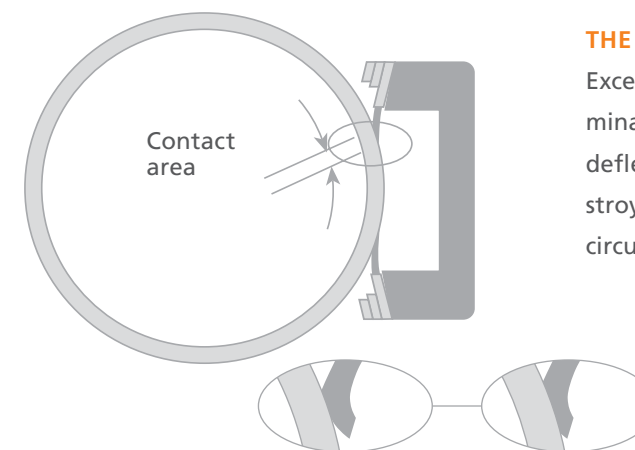
REVERSE ANGLE DOCTOR BLADES

Provide excellent print quality and wiping. To obtain best results, the blade holder must be cleaned carefully and be in good condition. The MDC Doctor Blade must be mounted absolutely straight and without waves. To prevent waves, tighten bolts in the blade holder from the center outwards. As always, minimal pressure is the key to successful printing.



THE CORRECT PRESSURE

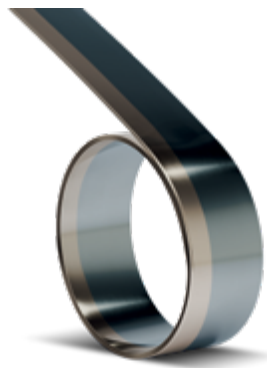
Minimum pressure ensures consistent blade wear and extended anilox life. The thinner the tip, the less pressure is required to achieve a clean and brilliant print result. It is recommended to use the same material on both sides of the chamber to eliminate uneven pressure. Increased pressure leads to a deflection of the doctor blade, resulting in a reduced angle and therefore in an increased contact area.



THE INCORRECT PRESSURE

Excessive blade pressure creates free-floating metal particles that contaminate ink systems. When a hard particle becomes trapped between the deflected blade tip and the anilox, this particle rides there, effectively destroying rows of cells. These rows of cells appear as thin bands running the circumference of an anilox and are commonly called score lines.

MDC DOCTOR BLADES FOR OFFSET AND SPECIAL APPLICATIONS.

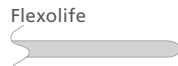


MDC STARLIFE

- Low-cost variation to GOLDSTAR
- No final Soft coating
- Extremely long service life with solvent based inks
- Consistently high print quality

APPLICATION

- Special Applications

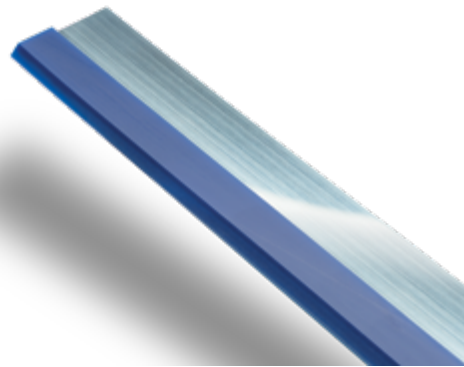
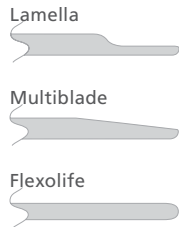


MDC PEARLSTAR

- New coating technology allows to significantly reduce ink adherence to the doctor blade
- Due to reduced ink adherence, significantly less drag outs and streaks in the print
- Reduces back doctoring in Flexo printing
- Outstanding performance with cold seal lacquers and in combination with adherent fluids
- MDC PEARLSTAR reduces defects in the entire print run and increases your performance

APPLICATION

- Special Applications

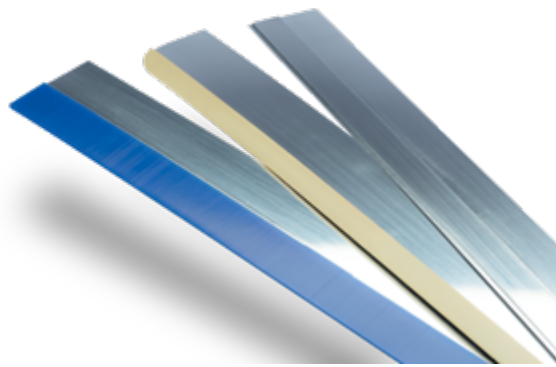


MDC BLADE WITH RUBBER TIP

- Wash-up blades for offset printing
- Cleans the rubberized roller
- Made to measure, punched and with holes available
- Increased service life over conventional products due to precise dimensional accuracy

APPLICATION

- Offset Printing



MDC BLADE WITH SYNTHETIC TIP

- Blade with rubber tip for screen printing
- Other areas of application include wallpaper and textile printing
- Available in different shore hardnesses

APPLICATION

- Special Applications

MDC DOCTOR BLADES FOR SPECIAL APPLICATIONS.



MDC GOLD

- Perfect performance at all contact angles
- No start-up time due to the technically advanced lamella profile
- Reduces defects in the entire print run
- Precise ink metering
- Corrosion protection

APPLICATION

- Special Applications

Lamella



MDC BLUESTAR

- Alternative to standard steel for flexo-graphic and gravure printing
- The material is extra heat-treated
- Universal blade for all applications

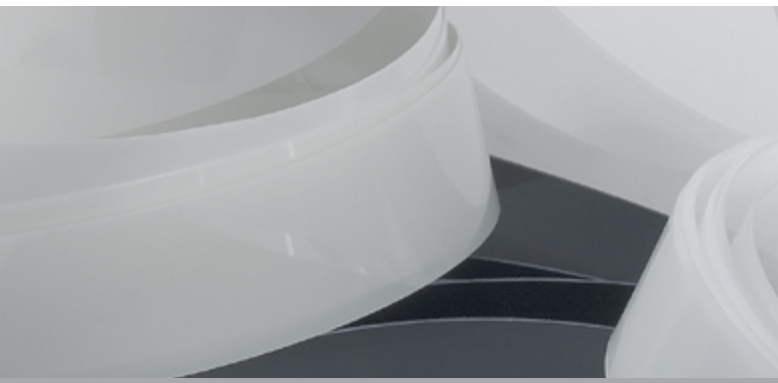
APPLICATION

- Special Applications

Multiblade

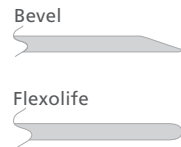


MDC PLASTIC BLADES.



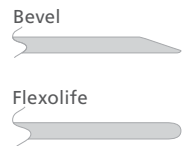
MDC DURAPRO

- Working doctor blade for flexo printing
- Suitable for abrasive inks including corrugated cardboard printing
- Long service life for less downtimes
- Solvent-resistant



MDC POLYPRO

- Closing blade for flexo printing
- Very flexible, minimum contact pressure necessary
- Resistant to a wide range of chemicals
- For water and solvent based inks
- Supports the longevity of the ceramic anilox roller

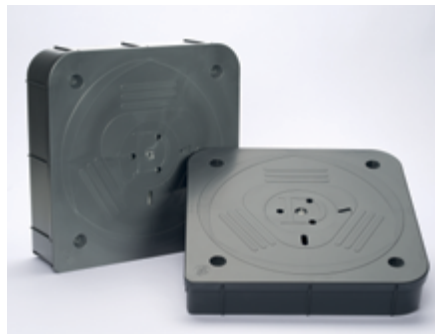


MDC UNIPRO

- Very flexible working blade
- High level of stability
- Suitable for water and alcohol based inks



PACKAGING.



DOCTOR BLADES BOXES

- Solid boxes made of plastic
- Boxes are available in different heights, depending on the blade width
- The box provides the best protection for the Doctor Blade
- Each box is equipped with rust-prevention chips as well as a safety hook
- The special design allows you to stack the boxes easily



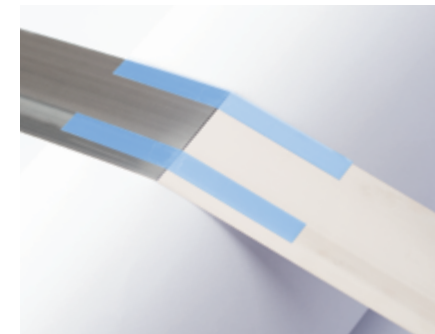
CARDBOARD PACKAGING FOR CUT-TO-SIZE BLADES

- Cut-to-size blades are packed in brown oil paper (rust protection) and white wrapping paper
- Cardboard boxes are used to protect the blades during shipment



U-BOX

- Long, slim cardboard box. Length of the box is matched to the length of the cut-to-size blades
- Blades will not be bent



STICKER

- Our new alternative to Bluefilm
- Cut-to-size blades are taped together with a special sticker
- Taped cut-to-size pieces are coiled in a regular Doctor Blades box
- Makes storage easy and allows uncomplicated change of the blades
- Save and easy pull out of cut pieces



PACKAGING FOR SAMPLES

- The samples are shrink-wrapped in bags with integrated corrosion protection
- The new packaging for samples protects the Doctor Blades optimally

MDC ENDSEALS.



THE END SEALS JUNGLE HAS COME TO AN END

There are too many copies on the market which causes headache many of the users. If the shape of an end seal is copied incorrectly, the wrong copy soon gets copied again until nothing remains of the original. Not with MDC end seals! The ingenious concept from Daetwyler SwissTec helps save the time you spend looking for the right end seal to a minimum. It's quick and easy – we offer you the perfect end seal based on the type of machine you have. Stop wasting time on copies of copies – buy the MDC end seal original!

- MDC REGULAR ENDSEAL
- MDC ADVANCED ENDSEAL
- MDC EXPERT ENDSEAL



THE PERFECT COMBINATION

In chamber system, both the end seals and the blades themselves wear down. The interplay between these two components plays a vital role in ensuring smooth and even colour application throughout the printing process.

The MDC doctor blade and MDC end seal by Daetwyler SwissTec offer the same service life. The MDC Regular, MDC Advanced and MDC Expert trio will help you navigate the world of end seals.



MDC ANILOX CLEANER.



THE NEAT SOLUTION FOR YOUR CHROME AND CERAMIC ROLLERS

- Effective and gentle deep cleaning of all anilox rollers and gravure cylinders
- Removes stubborn stains of all usual types of inks and lacquers
- For solvent inks, UV inks and water based inks
- Reduced press down times
- Good value and fast application
- No foam formation when washing off
- No VOC taxes
- Suitable for food packaging printing
- For gravure and flexo printing

APPLICATION

- Coat the anilox roller or gravure cylinder with MDC Anilox Cleaner
- Application time 10 to 15 minutes
- Wash off with water
- Storage life at least 2 years

SIZES AVAILABLE

- 1 l bottle (6 x 1 l multipack)
- 0.125 l sample bottle



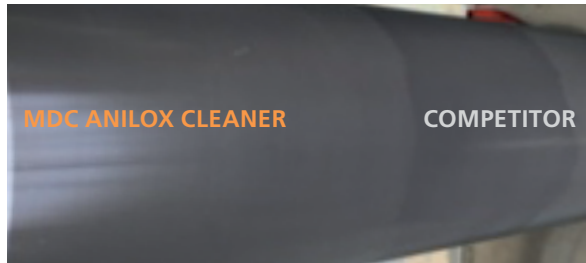
COMPARISON BEFORE AND AFTER USING MDC ANILOX CLEANER



BEFORE

Left: MDC ANILOX CLEANER

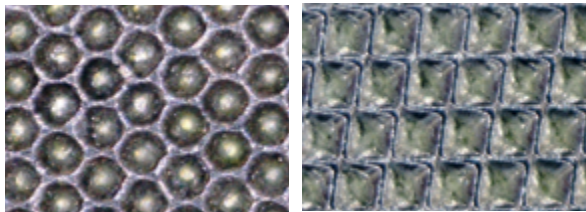
Right: Competitor product



AFTER

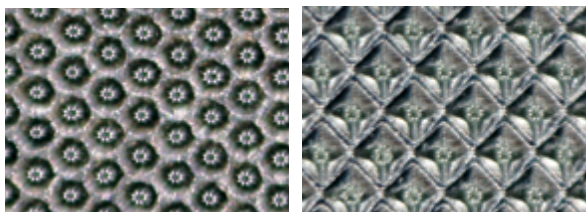
Left: MDC ANILOX CLEANER

Right: Competitor product



BEFORE

Stubborn stains on anilox roller cells



AFTER

Full pick-up volume is regained

CONSUMABLES.



BRUSHES

- Brass brush
- Stainless steel brush
- Nylon brush
- Synthetic brush
- Horsehair brush



ANGLE MEASURING INSTRUMENTS

- Angle measuring instrument, small: For cylinders with a circumference up to 700 mm
- Angle measuring instrument, large: For cylinders with a circumference up to 1500 mm



CYLINDER COVERS

- Individually adaptable to customers' requirements
- Fire-resistant
- Various materials available



ROUGHNESS MEASUREMENT

- Accessories:
- Rz printer (Bluetooth)
 - Rz measuring instrument holder
 - Rz test panel
 - Rz roughness sensor



ADVERTISING MATERIAL

- Ballpoint pens
- Magnifying glasses
- Pocket knives
- and many more!



Daetwyler
SwissTec

Daetwyler SwissTec AG

Flugplatz | 3368 Bleienbach

Switzerland

Phone +41 62 919 31 31

Fax +41 62 919 32 32

DAETWYLER.COM